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NEWS 5 MAY 11 KOREAPAT updates resume
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        MAY 19
                Derwent World Patents Index to be reloaded and enhanced
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        MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and
                USPATFULL/USPAT2
        MAY 30
NEWS
                The F-Term thesaurus is now available in CA/CAplus
                The first reclassification of IPC codes now complete in
NEWS
    9
        JUN 02
                INPADOC
NEWS 10
        JUN 26
                TULSA/TULSA2 reloaded and enhanced with new search and
                and display fields
NEWS 11
        JUN 28
                Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12
        JUl 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUl 14 FSTA enhanced with Japanese patents
NEWS 14 JUl 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/Caplus enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/CAplus fields enhanced with simultaneous left and right
                truncation
NEWS 20 SEP 25
                CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 21 SEP 25
                CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22
        SEP 25
                CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
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=> FIL HCAPLUS

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s diaryl carbonate

14380 DIARYL

92 DIARYLS

14435 DIARYL

(DIARYL OR DIARYLS)

286399 CARBONATE

66944 CARBONATES

319101 CARBONATE

(CARBONATE OR CARBONATES)

L1 711 DIARYL CARBONATE

(DIARYL(W) CARBONATE)

=> s l1 and process

2312002 PROCESS

1569204 PROCESSES

3450734 PROCESS

(PROCESS OR PROCESSES)

L2 197 L1 AND PROCESS

=> s 12 and tempering

25442 TEMPERING

55 TEMPERINGS

25458 TEMPERING

(TEMPERING OR TEMPERINGS)

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10791587.trn
09/26/2006
                  AND TEMPERING
L3
=> s l1 and tempering
         25442 TEMPERING
            55 TEMPERINGS
         25458 TEMPERING
                 (TEMPERING OR TEMPERINGS)
L4
             1 L1 AND TEMPERING
=> s l1 and thermal pre-treatment
       1062396 THERMAL
            72 THERMALS
       1062429 THERMAL
                  (THERMAL OR THERMALS)
        205129 PRE
           691 PRES
        205491 PRE
                  (PRE OR PRES)
       2183793 TREATMENT
        203094 TREATMENTS
       2291777 TREATMENT
                  (TREATMENT OR TREATMENTS)
           144 THERMAL PRE-TREATMENT
                  (THERMAL (W) PRE (W) TREATMENT)
L5
             0 L1 AND THERMAL PRE-TREATMENT
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            72 THERMALS
       1062429 THERMAL
                · (THERMAL OR THERMALS)
        205129 PRE
           691 PRES
        205491 PRE
                  (PRE OR PRES)
       2183793 TREATMENT
        203094 TREATMENTS
       2291777 TREATMENT
                  (TREATMENT OR TREATMENTS)
           144 THERMAL PRE-TREATMENT
                  (THERMAL (W) PRE (W) TREATMENT)
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       1062429 THERMAL
                 (THERMAL OR THERMALS)
       2183793 TREATMENT
        203094 TREATMENTS
       2291777 TREATMENT
                  (TREATMENT OR TREATMENTS)
         37525 THERMAL TREATMENT
                 (THERMAL (W) TREATMENT)
L7
             0 L2 AND THERMAL TREATMENT
=> s l1 and thermal treatment
       1062396 THERMAL
            72 THERMALS
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09/26/2006 10791587.trn
       1062429 THERMAL
                 (THERMAL OR THERMALS)
       2183793 TREATMENT
        203094 TREATMENTS
       2291777 TREATMENT
                 (TREATMENT OR TREATMENTS)
         37525 THERMAL TREATMENT
                 (THERMAL (W) TREATMENT)
L8
             0 L1 AND THERMAL TREATMENT
=> s l1 and thermal
       1062396 THERMAL
            72 THERMALS
       1062429 THERMAL
                 (THERMAL OR THERMALS)
L9
            38 L1 AND THERMAL
=> s 12 and thermal
       1062396 THERMAL
            72 THERMALS
       1062429 THERMAL
                  (THERMAL OR THERMALS)
             5 L2 AND THERMAL
=> d his
     (FILE 'HOME' ENTERED AT 10:33:59 ON 26 SEP 2006)
     FILE 'HCAPLUS' ENTERED AT 10:34:25 ON 26 SEP 2006
L1
            711 S DIARYL CARBONATE
L2
            197 S L1 AND PROCESS
L3
              0 S L2 AND TEMPERING
L4
              1 S L1 AND TEMPERING
L5
              0 S L1 AND THERMAL PRE-TREATMENT
L6
              0 S L2 AND THERMAL PRE-TREATMENT
L7
             0 S L2 AND THERMAL TREATMENT
L8
             0 S L1 AND THERMAL TREATMENT
L9
             38 S L1 AND THERMAL
L10
              5 S L2 AND THERMAL
=> s 12 and catalyst system
        735799 CATALYST
        738463 CATALYSTS
        944541 CATALYST
                 (CATALYST OR CATALYSTS)
       2325088 SYSTEM
       1273386 SYSTEMS
       3151860 SYSTEM
                 (SYSTEM OR SYSTEMS)
         16897 CATALYST SYSTEM
                 (CATALYST (W) SYSTEM)
            17 L2 AND CATALYST SYSTEM
=> s 12 and catalyst
        735799 CATALYST
        738463 CATALYSTS
        944541 CATALYST
                 (CATALYST OR CATALYSTS)
          124 L2 AND CATALYST
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## => d l4 ibib abs hitstr tot

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:125243 HCAPLUS

DOCUMENT NUMBER: 118:125243

TITLE:

SOURCE:

Preparation of cyclic carbonate esters

INVENTOR(S):

Schoen, Norbert; Buysch, Hans Josef; Leitz, Edgar;

Ott, Karl Heinz

PATENT ASSIGNEE(S):

Bayer A.-G., Germany Ger. Offen., 7 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4109236	A1	19920924	DE 1991-4109236	19910321
PRIORITY APPLN. INFO.:			DE 1991-4109236	19910321
OTHER SOURCE(S):	MARPAT	118:125243		

Cyclic carbonates (d.p. 1 or 2) are prepared simply, in satisfactory quality for anionic polymerization, by catalyzed transesterification of C3-18 diols

with

diaryl carbonates, tempering, and depolymn. Heating 14.0 mol neopentyl glycol, 14.0 mol (PhO)2CO, and 730 mg Bu2Sn dilaurate at 110-190°/30-20 mbar with distillation of PhOH, heating the pot residue at 195-210°/300-450 mbar in a stream of N for 18 h, and distillation in vacuo gave 87% cyclic carbonate (I) with purity 99.5%. Anionic polymerization of I gave a polycarbonate in 96% yield with mol. weight 35,000;

VS.

70 and 5000, resp., when I (purity 95%) was prepared without the tempering step. Imento

## => d l10 ibib abs hitstr tot

L10 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:756014 HCAPLUS

DOCUMENT NUMBER:

141:279423

TITLE:

Carbonylation process and catalysts for the

production of a diaryl carbonates

INVENTOR (S):

Dahlmann, March Pischer, Peter; Hansen, Sven-Michael;

Reisinger Claus-Peter

PATENT ASSIGNEE(S):

Bayer Materialscience Ag, Germany

SOURCE:

Ger. Offen., 8 pp. CODEN: GWXXBX

from phenols

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10309954	A1	2004 <del>0</del> 916 20040922	DE 2003-10309954	20030307
EP 1460055	A1		EP 2004-4639	20040301
R: AT, BE, CH,	DE, DK	, ES, FR, GB	, GR, IT, LI, LU, NL,	SE, MC, PT,

```
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
     US 2004192953 A1 20040930 US 2004-791587 20040302
                                20040908 CN 2004-10008006
20040930 JP 2004-61940
     CN 1526694
                         Α
                                                                   20040305
     JP 2004269530
                         A2
                                                                    20040305
PRIORITY APPLN. INFO.:
                                            DE 2003-10309954 A, 20030307
                        CASREACT 141:279423; MARPAT 141:279423
OTHER SOURCE(S):
     A procedure is described for the production of diaryl
     carbonates (e.g., di-Ph carbonate) by the direct carbonylation of
     phenols (e.g., phenol) in the presence of a catalyst system where the
     catalyst system is activated by thermal pretreatment in a sep.
     reaction apparatus
L10 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:886302 HCAPLUS
DOCUMENT NUMBER:
                        136:20376
TITLE:
                        Wholly aromatic polyester-polycarbonates and their
                         production process
                         Sakurai, Hiroshi; Ishiwata, Toyoaki; Miyoshi,
INVENTOR(S):
                         Takanori; Matsumura, Shunichi
PATENT ASSIGNEE(S):
                       Teijin Limited, Japan
                         PCT Int. Appl., 26 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:
     PATENT NO.
                   KIND DATE APPLICATION NO. DATE
     WO 2001092370 A1 20011206 WO 2001-JP4611 20010531
         W: CA, CN, ID, JP, KR, SG, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, TR
     EP 1291374
                         A1 20030312 EP 2001-934464
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI, CY, TR
     US 2003181627 A1 20030925
US 6858701 B2 20050222
                                           US 2002-297082
                                                                    20021202

      JP 2000-164532
      A 20000601

      JP 2000-260581
      A 20000830

      JP 2001-1333
      A 20010109

PRIORITY APPLN. INFO.:
                                            WO 2001-JP4611
                                                                W 20010531
OTHER SOURCE(S):
                        MARPAT 136:20376
    The polymers have a satisfactory color tone, excellent thermal stability, and an alkali metal content of \leq 10~\rm ppm. The polymers
     are advantageously produced by reacting aromatic dicarboxylic acids (e.g.,
     terephthalic acid), aromatic diols (e.g., bisphenol A), and diaryl
     carbonates (e.g., di-Ph carbonate) in a specific molar proportion
     using a pyridine compound (e.g., 4-dimethylaminopyridine) as a catalyst.
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L10 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:276802 HCAPLUS
DOCUMENT NUMBER:
                        122:32363
TITLE:
                        Process for manufacture of thermoplastic
                         polycarbonates
                         Kauth, Hermann; Kuehling, Steffen; Alewelt, Wolfgang;
```

INVENTOR(S):

Freitag, Dieter

PATENT ASSIGNEE(S): Bayer A.-G., Germany SOURCE: Ger. Offen., 7 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4240314 ·	A1	19940609	DE 1992-4240314	19921201
US 5373082	A	19941213	US 1993-155309	19931119
JP 06220184	A2	19940809	JP 1993-317499	19931125
JP 3174446	B2	20010611		
BE 1007762	A3	19951017	BE 1993-1304	19931125
NL 9302064	Α	19940701	NL 1993-2064	19931129
NL 194866	В	20030106		
NL 194866	С	20030506		

PRIORITY APPLN. INFO.: DE 1992-4240314 A 19921201 In polycarbonate manufacture by melt transesterification, polycarbonates (especially

waste polycarbonates) from aromatic bisphenols are dissolved in monophenols: degraded to oligocarbonates, diaryl carbonates, and bisphenols in the presence of quaternary ammonium or phosphonium catalysts at 100-295°. After optional removal of fillers and/or additives, high-viscosity oligocarbonates (mol. weight 8000-18,000) are prepared and polycondensed at 250-295° and 0.1-<500 mbar to polycarbonates with weight-average mol. weight 20,000-100,000. Thus, a bisphenol A polycarbonate

was

dissolved in PhOH and degraded at 180° in the presence of Me4NOH to an oligocarbonate, which was then polycondensed at 280° to a solvent-free polycarbonate with solution viscosity 1.269 (CH2Cl2, 5 g/L, 25°) and branch unit content 15 ppm.

L10 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1993:650161 HCAPLUS

DOCUMENT NUMBER:

119:250161

TITLE:

Process for making (a silylisocyanurate from

the catalytic thermal boimerization of

silylorganocarbamate

INVENTOR(S):

Pepe, Enrico J.; Su, Shiu Chin H.; Turner, Scot M. Union Carbide Chemicals and Plastics Technology Corp.,

USA

SOURCE:

U.S., 9 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

EP 583581 A1 19940223 EP 1993-110257 199306 EP 583581 B1 19970528 R: DE, FR, GB, IT, NL JP 06228166 A2 19940816 JP 1993-178476 199306 JP 2963309 B2 19991018					
US 5218133 A 19930608 US 1992-932584 199208 EP 583581 A1 19940223 EP 1993-110257 199306 EP 583581 B1 19970528 R: DE, FR, GB, IT, NL  JP 06228166 A2 19940816 JP 1993-178476 199306 JP 2963309 B2 19991018	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 583581 A1 19940223 EP 1993-110257 199306 EP 583581 B1 19970528 R: DE, FR, GB, IT, NL  JP 06228166 A2 19940816 JP 1993-178476 199306  JP 2963309 B2 19991018	`				
EP 583581 B1 19970528  R: DE, FR, GB, IT, NL  JP 06228166 A2 19940816 JP 1993-178476 199306  JP 2963309 B2 19991018	US 5218133	A	19930608	US 1992-932584	19920820
R: DE, FR, GB, IT, NL  JP 06228166 A2 19940816 JP 1993-178476 199306  JP 2963309 B2 19991018	EP 583581	A1	19940223	EP 1993-110257	19930628
JP 06228166 A2 19940816 JP 1993-178476 199306 JP 2963309 B2 19991018	EP 583581	B1	19970528		
JP 2963309 B2 19991018	R: DE, FR, GB,	IT, NL		•	
TD 10007700	JP 06228166	A2	19940816	JP 1993-178476	19930628
JP 10067788 A2 19980310 JP 1997-195226 199707	JP 2963309	B2	19991018		
	JP 10067788	A2	19980310	JP 1997-195226	19970707

> JP 2916442 19990705

PRIORITY APPLN. INFO.: US 1992-932584 A 19920820 JP 1993-178476 A3 19930628

OTHER SOURCE(S): MARPAT 119:250161

A process for making a silylorganocarbamate or a silylisocyanurate comprises reacting an aminosilane with a dialkyl AB carbonate, diarvl carbonate or a mixture thereof in the presence of a basic catalyst to obtain the silylorganocarbamate; optionally, neutralizing the basic catalyst and residual aminosilane with a neutralizing agent; and adding a cracking catalyst and heating at subatmospheric pressure to obtain the silylisocyanurate e.g., I, or heating a silylorganocarbamate at a temperature sufficient for dissociation of the

carbamate at subatmospheric pressure in the presence of a cracking catalyst and a trimerization catalyst to obtain a silylisocyanurate.

L10 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:60254 HCAPLUS

DOCUMENT NUMBER:

116:60254
Aromatic polycarbonates with controlled molecular TITLE:

weight and hydroxy end group content INVENTOR (S): Fukawa, Isaburo; Tanabe, Tsuneaki.

PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
		<b>-</b>					
	JP 03252421	A2	19911111	JP 1990-47327	19900301		
	JP 07098862	B4	19951025				
PRIOR	ITY APPLN. INFO.:			JP 1990-47327	19900301		
AB	The title polymers	are pre	pared by the:	rmal prepolymn. of			

dihydroxydiaryl compds. with diaryl carbonates, determination of the mol. weight of the polymers and the end group composition, and adding

the

dihydroxydiaryl compound and/or the diaryl carbonate to obtain the desired mol. weight and content of OH end groups. The process is demonstrated by polymerizing bisphenol A with di-Ph carbonate.

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## => d lll ibib abs hitstr tot

L11 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:349044 HCAPLUS

DOCUMENT NUMBER: 142:394138

TITLE: Water-resistant carbonylation catalyst

system for the production of diaryl

carbonates via the direct carbonylation of

phenolic compounds

INVENTOR(S): Soloveichik, Grigorii Lev; Chuck, Timothy Leigh;

Shalyaev, Kirill Vladimirovich; Pressman, Eric James;

Bonitatebus, Peter John

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE:

U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DAT	E APPLICATION NO.	DATE		
US 2005085656	A1 200	50421 US 2003-687411	20031015		
US 7084291	B2 200	60801			
WO 2005040089	A2 200	50506 WO 2004-US30610	20040917		
		, AZ, BA, BB, BG, BR, BW, BY,			
CN, CO, C	R, CU, CZ, DE	, DK, DM, DZ, EC, EE, EG, ES,	FI, GB, GD,		
GE, GH, G	M, HR, HU, ID	, IL, IN, IS, JP, KE, KG, KP,	KR, KZ, LC,		
		, MA, MD, MG, MK, MN, MW, MX,			
NO, NZ, C	M, PG, PH, PL	, PT, RO, RU, SC, SD, SE, SG,	SK, SL, SY,		
		, UA, UG, US, UZ, VC, VN, YU,			
		, MZ, NA, SD, SL, SZ, TZ, UG,			
		, TJ, TM, AT, BE, BG, CH, CY,			
		, HU, IE, IT, LU, MC, NL, PL,			
		, CG, CI, CM, GA, GN, GQ, GW,	ML, MR, NE,		
SN, TD, T	G				

PRIORITY APPLN. INFO.:

US 2003-687411 A 20031015

OTHER SOURCE(S): CASREACT 142:394138

AB A method of increasing the amount of diaryl carbonates (e.g., di-Ph carbonate) produced per amount of catalyst consumed in a phenolic compound (e.g., phenol) carbonylation process is described. Phenolic compound carbonylation produces water as a reaction byproduct which reduces the turnover number (TON) of the catalyst. A mixture of a phenolic precursor, a base-containing catalyst and co-catalyst components and at least one chemical additive comprising a halide or hydroxide of alkali metal or alkaline earth metal when carbonylated together under specific conditions increases the TON and water resistivity of a palladium catalyst. The metal halide likely makes the catalyst less susceptible to degradation by water hence increasing the reaction yield per weight of catalyst consumed.

REFERENCE COUNT:

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:756014 HCAPLUS

DOCUMENT NUMBER: 141:279423

TITLE: Carbonylation process and catalysts for the

10791587.trn

Page 9

production of a diaryl carbonates

from phenols

Dahlmann, Marc; Fischer, Peter; Hansen, Sven-Michael; INVENTOR(S):

Reisinger, Claus-Peter

Bayer Materialscience Ag, Germany PATENT ASSIGNEE(S):

Ger. Offen., 8 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE APPLICATION NO. DATE
DE 10309954	A1	20040916 DE 2003-10309954 20030307
EP 1460055	A1	20040310 DE 2003-10303934 20030307 20040922 EP 2004-4639 20040301
		ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE SI LT	LV FI	I, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
	A1	20040930 US 2004-791587 20040302
CN 1526694	A	20010302
JP 2004269530	A2	20010303
PRIORITY APPLN. INFO.:		DE 2003-10309954 A 20030307
OTHER SOURCE(S):	CASREA	ACT 141:279423; MARPAT 141:279423
		for the production of diaryl
carbonates (e.g., d	i-Ph ca	arbonate) by the direct carbonylation of
phenols (e.g., phenol	ol) in	the presence of a catalyst
system where the ca	talyst	system is activated
1 .1		·

by thermal pretreatment in a sep. reaction apparatus

L11 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:77802 HCAPLUS 138:124222

DOCUMENT NUMBER:

TITLE:

Process and catalyst

systems for the carbonylation manufacture of

diaryl carbonates from phenols and

carbon monoxide and dioxide

INVENTOR(S):

Reisinger, Claus-Peter; Hansen, Sven Michael; Fischer,

Peter

PATENT ASSIGNEE(S): Bayer A. G., Germany; Bayer Materialscience A.-G. Eur. Pat. Appl., 9 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT 1	NO.		KINI	)	DATE	}	1	APPL	I CAT	ION I	NO.		D#	ATE	
	1279			A2 A3	-		0129 0303	I	EP 2	002-	1558	4		20	00207	715
	R:	ΙE,					FR, MK,	-					NL, EE,		MC,	PT,
SG	10136	77		A1 A1			0526	9	SG 2	001-1 002-4	4323			20	00107	712
US	2003 2003 6852	03.66.6		A2 A1 B2		2003 2003 2005	0220	-		002-2 002-2					00207	
.59	2002 1400	0029	55	A A		2003 2003 2003	0603			002-2 002-3		50			00207 00207	

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09/26/2006 10791587.trn PRIORITY APPLN. INFO.: DE 2001-10136856 A 20010727 OTHER SOURCE(S): MARPAT 138:124222 A process and for the carbonylation manufacture of diaryl carbonates (e.g., di-Ph carbonate) from phenols (e.g., phenol) and carbon monoxide and dioxide is conducted in the presence of a catalyst system comprising a Group VIIIB metal salt (e.g., palladium dibromide) where there are at least two metal salts (e.g., manganese trisacetylacetonate) and a base (e.g., tetrabutylammonium bromide). L11 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2002:353405 HCAPLUS DOCUMENT NUMBER: 136:356777 TITLE: Oxidative carbonylation process and catalyst systems for the conversion of carbon monoxide and hydroxyaromatic compounds into diaryl carbonates INVENTOR (S): Shalyaev, Kirill Vladimirovich; Johnson, Bruce Fletcher PATENT ASSIGNEE(S): General Electric Company, USA SOURCE: PCT Int. Appl., 18 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: 'PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002036539 A1 20020510 WO 2001-US22358 20010717 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

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CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
               HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
               LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
               SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
               ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
               DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
               BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
          B1 20021008 US 2000-699829 20001030
2001073504 A5 20020515 AU 2001-73504 20010717
L337502 A1 20030827 EP 2001-952785 20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US_6462217
     AU 2001073504
     EP 1337502
                             T2
                                                JP 2002-539300
      JP 2004513104
                                     20040430
                                                                              20010717
     US 2003032830
                                     20030213
                             A1
                                                  US 2002-163824
                                                                              20020606
     US 6753288
                            B2
                                     20040622
                                                                       A 20001030
PRIORITY APPLN. INFO.:
                                                   US 2000-699829
                                                   WO 2001-US22358
                                                                          W 20010717
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AB Organolead compds. (e.g., tetraethyllead) are useful in catalyst compns. for the oxidative carbonylation of hydroxayromatic compds. (e.g., phenol) with oxygen and carbon monoxide into diaryl carbonates (e.g., di-Ph carbonate). The organolead compds. are employed in combination with a Group VIII metal such as palladium, or one of its compds., and a bromide or chloride such as tetraethylammonium bromide.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:345990 HCAPLUS

DOCUMENT NUMBER: 136:356769

TITLE: Oxidative carbonylation process and

catalysts for the production of diaryl

carbonates from phenols, carbon monoxide, and

oxygen

INVENTOR(S): Ofori, John Yaw; Pressman, Eric James; Shalyaev,

Kirill Vladimirovich; Williams, Eric Douglas;

Battista, Richard Anthony

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE:

U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 736,871.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.						KIND DATE			APPL	ICAT	ION	NO.	DATE				
			<b>-</b>							- <b></b>				-	<b></b> -			
U <u>S</u>	6384	262	man.		B1		2002	0020507 US 2001-961753								20010924		
พดั	2002	0572	13		A2		2002	0725	1	WO 2	001-	US51	187		20011113			
WO	2002	0572	13		A3		2003	0206										
	W:	ΑE,	AG,	ΑL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
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											KR,							
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	RW:										TZ,			AT.	BE.	CH.	CY.	
											LU,							
											ML,						,	
DE	1019			-	T		2003	1009		DE 2	001-1	1019	7040	,	2	0011	113	
JP	2004	5251														0011		
	5742										001-9					0011		
PRIORIT	Y APP										000-							
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AB A catalytic process for the production of diaryl carbonates (e.g., di-Ph carbonate) by the oxidative carbonylation of aromatic hydroxy compds. (e.g., phenol) with carbon monoxide and oxygen is described which achieves water removal during the reaction by the steps of removing a liquid stream from an oxidative carbonylation reaction mixture in a reaction vessel, subjecting the liquid stream to reduced pressure, and returning at least a portion of the dried liquid stream to the reaction vessel. Typical oxidative carbonylation catalyst systems contain: (A) at least one Group VIII metal(s) having an atomic number of >44 or a compound the metal; (B) at least one guanidinium

salt or
 onium salt; and (C) at least one metal co-catalyst. Process
flow diagrams are provided.

REFERENCE COUNT:

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:741565 HCAPLUS

DOCUMENT NUMBER:

135:289196

TITLE:

Mixed dialkali metal salts of sulfuric acid containing cesium as polycarbonate polymerization catalysts

INVENTOR(S):

Mccloskey, Patrick Joseph; Burnell, Timothy Brydon;

Smigelski, Paul Michael, Jr.; Nisoli, Alberto

General Electric Co., USA

PATENT ASSIGNEE(S): SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA'	rent	NO.			KIN	D -	DATE			APPL	ICAT	ION	NO.		D	ATE	
	US	6300	460			,B1		2001	1009		US 2	000-	6126!	 52		2	0000	706
	WO	2002	0045	46		A1		2002	0117		WO 2	001-	US15	497		2	0010	514
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB.	·BG.	BR.	BY.	BZ.	CA.	CH.	CN.
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC.	EE.	ES.	FI.	GB.	GD.	GE.	GH.
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG.	KP.	KR.	KZ.	LC.	LK.	LR.
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ.	NO.	NZ.	PL.	PT.
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ŢJ,	TM.	TR,	TT.	TZ.	UA.	UG.	UZ.
			VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU.	TJ.	TM	,	,	,
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG.	ZW.	AT.	BE.	CH.	CY.
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL.	PT.	SE.	TR.	BF.
			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN.	TD.	TG	,	,
	ΕP	1301				A1		2003	0416		EP 2	001-	9354(	63		2	0010	514
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		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL.	SE.	MC.	PT.
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR	•	•	,			
	JР	2004	50284	48		T2		2004	0129		JP 2	002-	50940	04		2	0010	514
	ΑT	2889	35			E		2005	0215	i	AT 2	001-9	93546	53		2	0010	
	TW	5742	56			В		2004	0201	•	TW 2	001-9	9011	5352		2	0010	526
PRIO	RITY	APP:	LN.	INFO.	. :												0000	
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				-														

AB The method for preparing a polycarbonate with low branched byproducts by a melt process comprises reacting a diphenol (e.g., bisphenol A) with a diaryl carbonate (e.g., di-Ph carbonate) at 100-350° in the presence of a catalyst system comprising a mixed dialkali metal salt of sulfuric acid containing at least one cesium equivalent (e.g., NaCsSO4) and a base (e.g., tetramethylammonium hydroxide).

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:111542 HCAPLUS

DOCUMENT NUMBER:

134:149297

TITLE:

Carbonylation method and catalyst

system for producing aromatic carbonates from

hydroxyaromatic compounds, oxygen and carbon monoxide

Patel, Ben Purushotam; Soloveichik, Grigorii Lev; Whisenhunt, Donald Wayne, Jr.; Shalyaev, Kirill

. Vladimirovich

PATENT ASSIGNEE(S):

General Electric Company, USA

SOURCE:

U.S., 7 pp. CODEN: USXXAM

DOCUMENT TYPE:

INVENTOR (S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

10791587.trn

Page 13

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      US-6187942
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                                                                               20000301
      US-2001031888
                             A1
                                      20011018
                                                   US 2000-729123
                                                                               20001204
      ŪS 6355824
                             B2
                                      20020312
      WO 2001064617
                             A1
                                      20010907
                                                   WO 2001-US839
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                    20021211 EP 2001-955099
      EP 1263710
                              A1
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
      JP 2003525262
                             T2
                                      20030826
                                                   JP 2001-563461
                                                                               20010111
PRIORITY APPLN. INFO.:
                                                                       A3 20000301
W 20010111
                                                    US 2000-517000
                                                    WO 2001-US839
      Aromatic hydroxy compds. (e.g., phenol) are carbonylated into diaryl
      carbonates (e.g., di-Ph carbonate) by contacting them with oxygen
      and carbon monoxide in the presence of a carbonylation catalyst
      system comprising an iron compound (e.g., ferrous acetate) as the
      primary catalyst component, and an inorg. cocatalyst (e.g.,
      tetraethylammonium chloride). This process does not use costly
      platinum-group metal compound catalysts; a process flow diagram is
      presented.
REFERENCE COUNT:
                             26
                                    THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                             2001:91544 HCAPLUS
DOCUMENT NUMBER:
                             134:149285
TITLE:
                             Method and catalyst system for
                             producing aromatic carbonates
INVENTOR (S):
                             Patel, Ben Purushotam; Soloveichik, Grigorii Lev;
                             Whisenhunt, Donald Wayne, Jr.; Shalyaev, Kirill
                             Vladimirovich
PATENT ASSIGNEE(S):
                             General Electric Company, USA
SOURCE:
                             U.S., 7 pp.
                             CODEN: USXXAM
DOCUMENT TYPE:
                             Patent
LANGUAGE:
                             English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                     DATE
     PATENT NO.
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                                                                             DATE
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     US 6184409
US 6509489
                              B1
                                     20010206
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                                                                              20000301
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                                     20030121
                                                  US 2000-694444
                                                                               20001024
     WQ_2001064618
                             A1
                                     20010907
                                                  WO 2001-US867
                                                                              20010111
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
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               KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
               MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
               TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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            10791587.trn
     EP 1261578
                            A1
                                   20021204
                                              EP 2001-901979
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2003525263
                           T2
                                  20030826
                                                JP 2001-563462
PRIORITY APPLN. INFO.:
                                                US 2000-516746
                                                                      A3 20000301
                                                WO 2001-US867
                                                                     W 20010111
     The method comprises the step of contacting ≥1 aromatic hydroxy compound
AB
     with oxygen and CO in the presence of a carbonylation catalyst
     system having an effective amount of a nickel source as the primary
     catalyst component and optionally ≥1 inorg. co-catalyst, as well as
     a halide composition and/or a base in the absence of a Group VIII B metal
     source. A process flow diagram is presented.
REFERENCE COUNT:
                                  THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
                           26
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                           2001:45205 HCAPLUS
DOCUMENT NUMBER:
                           134:87919
TITLE:
                           Carbonylation process and catalyst
                           system for producing diaryl
                           carbonates from the reaction of carbon
                           monoxide and oxygen with hydroxyaromatic compounds
INVENTOR (S):
                           Patel, Ben Purushotam; Soloveichik, Grigorii Lev;
                           Whisenhunt, Donald Wayne, Jr.; Shalyaev, Kirill
                           Vladimirovich
PATENT ASSIGNEE(S):
                           General Electric Company, USA
SOURCE:
                           U.S., 6 pp. .
                           CODEN: USXXAM
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                           KIND
                                  DATE
                                              APPLICATION NO.
                                                                         DATE
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     US 6175033
                           B1
                                  20010116
                                              US 2000-510381
                                                                         20000222
     WO-2001062702
                                  20010830 WO 2000-US29285
                           A1
                                                                         20001024
     AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
              KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
         MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1261576
                           A1 20021204 EP 2000-973807
                                                                         20001024
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              IE, SI, LT, LV, FI, RO, MK, CY, AL
     US 6380418
                           B1
                                  20020430
                                               US 2000-721682
PRIORITY APPLN. INFO.:
                                               US 2000-510381
                                                                     A 20000222
                                               WO 2000-US29285
                                                                     W 20001024
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A method of carbonylating aromatic hydroxy compds. into a diaryl AΒ carbonate (e.g., di-Ph carbonate) comprises reacting at least one aromatic hydroxy compound (e.g., phenol) with oxygen and carbon monoxide in the presence of a carbonylation catalyst system comprising an effective amount of a manganese source [e.g., manganese(II) acetylacetonate] as a primary catalyst component in the absence of a Group VIIIB metal source, and, optionally in the presence of of a catalytic amount of an inorg. cocatalyst [e.g., lead(II) oxide] as well as a halide composition

(e.g., tetraethylammonium bromide), and/or a base. A process flow diagram is presented.

REFERENCE COUNT:

26

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:441754 HCAPLUS

DOCUMENT NUMBER:

133:75637

TITLE:

Method for processing reaction mixtures containing

diaryl carbonate

INVENTOR (S):

Hesse, Carsten; Jansen, Ursula; Rechner, Johann; Reisinger, Clays-Peter; Eek, Rob; Hallenberger,

Kaspar; Friedrich Martin

PATENT ASSIGNEE(S):

Bayer Aktiengesellschaft, Germany

SOURCE:

PCT Int. Appl., 21 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE		KIND DATE				APPLICATION NO.							DATE				
WO 2	20000	374	- <b>-</b>		Δ1	2000	0629	1	 ผ∩ 1	1999-1		97		19991209			
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											GE,						
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							RU,					•			-	-	•
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		DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
											SN,						
DE 1	.9859	295			A1		2000	0629	]	DE 1	L998-:	1985	9295		1	9981:	222
BR 9	9164	64			. A		2001	0925	1	BR 1	1999-	1646	4		1	99912	209
	1407						2001	1010	1	EP 1	L999-9	9634	55		1	9991:	209
	1407						2003										
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AT 2					E		2003				1999-9					99912	209
and the same	2073	-			Т3						1999-9					99912	209
/	6051	,,,,,			·B1		2003	0812			2001-8					00106	
PRICRITY	APPL	N. 1	NFO	. :							.998-:					99812	222
									1	WO 1	.999-1	EP969	97	7	<b>V</b> 1	99912	209

OTHER SOURCE(S): MARPAT 133:75637

The invention relates to a method for processing reaction mixts. containing diaryl carbonate, an aromatic hydroxy compound, water, a base, a quaternary salt and other catalyst components, said reaction mixts. being obtained in the production of diaryl carbonates by direct carbonylation of aromatic hydroxy compds. The reaction mixture is distilled at 80-160°/1-100 mbar and 1 theor. distillation plate to give a gas phase containing a diaryl carbonate, an aromatic hydroxy compound, and water and a liquid phase containing a diaryl carbonate, aromatic hydroxy compound, base, a quaternary salt, and other catalyst components for recycling to the carbonylation. process is performed in film evaporators and provides for the recycling with a min. loss of activity of the catalyst system.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:157747 HCAPLUS

DOCUMENT NUMBER: 132:182331

TITLE: Continuous oxidative carbonylation process

and catalyst system for the manufacture of diaryl carbonates

from hydroxyaromatic compounds and oxygen and carbon

monoxide

INVENTOR(S):
Moreno, Phillip

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE: U.S., 8 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE		A	PP:	LICAT	ION	NO.		D	ATE	
US	6034	262				-	2000	0307	T.	is .	 1998-	2186	 51		- 1	9981	222
	2000		17		A1		2000				1999-				_	9991	
	W:	CN,	JP,	SG			_		,			0021	220		_	<i></i>	020
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		PT,														·	•
EP	1140	777			A1		2001	1010	E	P :	1999-	9550	73		1	9991	020
EP	1140	777			B1		2004	0526									
	R:	ΑT,	ΒE,	CH,	DE,	DK	, ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	FΙ													•	•
JP	2002	5333	13		T2		2002	1008	J	P 2	2000-	5894	89		1	9991	020
AT	2677	94			Ē		2004	0615	A	T	1999-	9550	73		1	9991	020
PRIORIT	Y APP	LN.	INFO	. :					U	S :	1998-	2186	51	I	A 1	9981	222
									W	O :	1999-	ÙS24!	528	1	<b>V</b> 1	9991	020

OTHER SOURCE(S): MARPAT 132:182331

Diaryl carbonates (e.g., di-Ph carbonate) are manufactured in a continuous process by contacting at least one hydroxyarom. compound (e.g., phenol) with oxygen and carbon monoxide in the presence of catalyst system comprising a Group VIIIB metal catalyst [e.g., Pd(acac)2], an inorg. co-catalyst (e.g., PbO), an optional organic catalyst, and at least one halide source (e.g., hexaethylguanidinium bromide), in which one provides a first solution comprising at least one first catalyst system component in a first tank, a second solution comprising at least one second catalyst system component in a second tank, and feeding the first and

second solns. sep. into a reactor.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 17' HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:285937 HCAPLUS

DOCUMENT NUMBER: 130:282484

TITLE: Carbonylation process and

hexaalkylguanidinium halide-containing

catalyst system for preparing

diaryl carbonates from hydroxyaromatic compounds

INVENTOR(S): Pressman, Eric James; Shafer, Sheldon Jay

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Page 17

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE: U.S., 3 pp., Cont.-in-part of U.S. Ser. No. 40,264.

CODEN: USXXAM

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.				KIND DATE			APPLICATION NO.				DATE				
	US	5898	0.79			Α	1999	0427	US	1997-	92900	0			19970	912
	US	5898	080			Α	1999	0427	US	1997-	40264				19970	827
	JP	1030	6065			A2	1998	1117	JP	1998-	21365	;			19980	203
	EΡ	8589	91			A1	1998	0819	EP	1998-	30091	.1			19980	
	ΕP	8589	91			B1	2002	0116			_					
		R:	ΑT,	BE,	CH,	DE,	DK, ES,	FR,	GB, GI	R, IT,	LI.	LU.	NL.	SE	E. MC.	PT.
			IE,	SI,	LT,		FI, RO	•	,	.,,	,	,	,		-,,	,
	ES	2169	894		•	Т3	2002	0716	ES	1998-	30091	1			19980	209
	CN	1211	564			Α	1999	0324	CN	1998-	10445	60			19980	
PRIOR	TIS	APP	LN.	INFO	. :				_	1997-			Δ.	2	19970	
										1997-			F		19970	
							•			1997-		_	F		19970	
										1997-		_	A		19970	

Diaryl carbonates, useful as polycarbonate monomers (no data), are prepared in high yield and selectivity by contacting ≥1 hydroxyarom. compound with oxygen and carbon monoxide in the presence of catalyst system comprising palladium or its compds., a lead compound (i.e., an inorg. cocatalyst), and ≥1 of a hexaalkylguanidinium bromide and/or chloride, where the use of the hexaalkylguanidinium salt causes an increase in the yield of the diaryl carbonate without a decrease in selectivity. Thus, phenol, hexaethylguanidinium bromide, lead(II) oxide, and palladium(II) 2,4-pentanedioate were added to a reactor, the reactor pressurized with 4150 kg/m2 of carbon monoxide and 2075 kg/m2 of air, heated at 100°, and a mixture of carbon monoxide and air introduced over 6 h, producing a di-Ph carbonate yield of 11.4% and a palladium turnover number of 11,534, while a control carbonylation using

tetra-n-butylammonium bromide instead of hexaethylguanidinium bromide showed a yield of 10.0% and a palladium turnover number of 8970.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:653707 HCAPLUS

DOCUMENT NUMBER:

129:245657

TITLE:

Carbonylation process and stable

β-diketone salt catalysts for preparing

diaryl carbonates from hydroxyaromatic compounds

INVENTOR (S):

Pressman, Eric James; Shafer, Sheldon Jay

PATENT ASSIGNEE(S): GENERAL ELECTRIC COMPANY, USA

SOURCE:

Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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Page 18

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EP 867428
                         A1
                                19980930
                                         EP 1998-302049
                                                                   19980318
     EP 867428
                         B1
                                20040303
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE,
             SI, LT, LV, FI, RO
     US 5908952
                         Α
                                19990601
                                           US 1997-823784
                                                                   19970324
     SG 77629
                         A1
                                20010116
                                            SG 1998-550
                        A1
A2
A
                                                                   19980311
     JP 10330325
                                19981215
                                           JP 1998-64848
                                                                   19980316
     CN 1194261
                                19980930
                                           CN 1998-105858
                                                                   19980324
PRIORITY APPLN. INFO.:
                                           US 1997-823784
                                                               A 19970324
     Hydroxyarom. compds. (e.g., phenol) are carbonylated to diaryl
     carbonates (e.g., di-Ph carbonate) by reaction with oxygen and
     carbon monoxide in the presence of a catalyst system
     which comprises a Group VIII metal salt of an aliphatic \beta-diketone
     [e.g., palladium(II) 2,4-pentanedionate], and, optionally, an inorg.
     cocatalyst, an organic cocatalyst (e.g., 2,2':6',2"-terpyridine), and a
     bromide or chloride source (e.g., hexethylguanidinium bromide). The use
     of the \beta-diketone salt confers long shelf life under normal storage
     conditions (i.e., nonpptn. of the Pd), high activity upon recycle, and
     capability of carbonylation at <100°.
REFERENCE COUNT:
                              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                        5
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         1998:568638 HCAPLUS
DOCUMENT NUMBER:
                         129:176095
TITLE:
                         Carbonylation method for preparing diaryl
                         carbonate monomers from hydroxyaromatic
                         compounds using catalyst systems
                         containing hexaalkylguanidinium chlorides or bromides
INVENTOR (S):
                         Pressman, Eric James; Shafer, Sheldon Jay
PATENT ASSIGNEE(S):
                        General Electric Co., USA
SOURCE:
                         Eur. Pat. Appl., 5 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 858991	Al	19980819	EP 1998-300911	19980209
EP 858991	B1	20020116		
R: AT, BE, CH,	DE, DK	, ES, FR, GB	, GR, IT, LI, LU, NL,	SE, MC, PT,
FE, SI, LT,	LV, FI	, RO	•	
US 5898080	A	19990427	US 1997-40264	19970827
US-5898079	Α	19990427	US 1997-929000	19970912
CN 1194260	Α	19980930	CN 1998-105856	19980324
PRIORITY APPLN. INFO.:			US 1997-40300P	P 19970213
			US 1997-40264	P 19970827
			US 1997-929000	A 19970912

AΒ Hydroxyarom. compds. (e.g., phenol) are converted into diaryl carbonates (e.g., di-Ph carbonate) in high yield and selectivity by reaction with oxygen and carbon monoxide in the presence of a catalyst system comprising a Group VIIIB metal or compound [e.g., palladium(II) acetate], an inorg. cocatalyst [e.g., a cobalt(II) complex with bis[3-(salicylalamino)propyl]methylamine], an organic cocatalyst (e.g., 2,2':6',2''-terpyridine), and a hexaalkylguanidinium bromide or chloride (e.g., hexaethylguanidinium bromide). The use of the

hexaalkylguanidinium bromide or chloride causes an increase in the yield of the diaryl carbonate product without a decrease in

its selectivity of formation.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:682236 HCAPLUS

DOCUMENT NUMBER: 127:307214

TITLE: Process for the continuous production of

diaryl carbonates by the oxidative

carbonylation of aromatic hydroxy compounds

INVENTOR(S): Buysch, Hans-Josef; Hesse, Carsten; Rechner, Johann

PATENT ASSIGNEE(S): Bayer A.-G., Germany SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 801051	A1	19971015	EP 1997-105177	19970327
EP 801051	B1	20020327		
R: BE, DE, ES,	FR, GB	, IT, NL		
DE 19614062	A1	19971016	DE 1996-19614062	19960409
US 5712406	A	19980127	US 1997-794435	19970205
ES 2174141	T3	20021101	ES 1997-105177	19970327
US 5821377	A	19981013	US 1997-825603	19970401
JP 10036323	A2	19980210	JP 1997-100764	19970404
CN 1168879	Α	19971231	CN 1997-110535	19970409
CN 1169422	A	19980107	CN 1997-111037	19970516
PRIORITY APPLN. INFO.:			DE 1996-19614062 A	19960409
OTHER SOURCE(S):	MARPAT	127:307214		

AB Diaryl carbonates (e.g., di-Ph carbonate) are prepared

by the oxidative carbonylation of aromatic hydroxy compds. (e.g., PhOH) in the presence of a catalyst system comprising a

platinum-group metal, a co-catalyst, and a quaternary salt or base.

Process flow diagrams are presented.

L11 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:655204 HCAPLUS

DOCUMENT NUMBER: 123:55489

TITLE: Preparation of diaryl carbonates

INVENTOR(S): Buysch, Hans-Josef; Dohm, Joachim; Hesse, Carsten;

Rechner, Johann; Kaufmann, Dieter

PATENT ASSIGNEE(S): Bayer A.-G., Germany SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 654461	A1	19950524	EP 1994-117665	19941109
EP 654461	B1	19971203		

R: BE, CH, DE, ES, FR, GB, IT, LI, NL DE 4339697 19950524 DE 1993-4339697 **A**1 19931122 DE 4341990 Α1 19950614 DE 1993-4341990 19931209 ES 2110683 Т3 19980216 ES 1994-117665 19941109 US 5502232 Α 19960326 US 1994-339613 19941115 JP 07188116 A2 19950725 JP 1994-305701 19941116 CA 2135656 AA CA 1994-2135656 19950523 19941118 CN 1107833 Α 19950906 CN 1994-118957 19941122 CN 1054836 В 20000726 PRIORITY APPLN. INFO.: DE 1993-4339697 A 19931122 DE 1993-4341990 A 19931209

OTHER SOURCE(S): CASREACT 123:55489

AB (RO)2CO [R = (un)substituted aryl] were prepared in a process in which an aromatic hydroxy compound is condensed with CO in the presence of O, a drying agent, and a catalyst system comprising a noble metal, a base, a quaternary salt, and a cocatalyst, the metal catalyst being activated by CO pretreatment in the presence of the quaternary salt and, optionally, the cocatalyst. Thus, PdBr2 and Bu4NBr in PhOH containing 750ppm H2O at 55° were treated with CO after which Zeolite A, Mn(acac)2, and pentamethylpiperidine were added and an air/CO (1:1) mixture introduced for 6h to give a mixture comprising 1.5% (PhO)2CO.

L11 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1994:191360 HCAPLUS

DOCUMENT NUMBER:

120:191360

TITLE:

Preparation of aromatic carbonic acid esters

INVENTOR(S):

Iwane, Hiroshi; Myagi, Hidekazu; Imada, Satoshi; Seo,

Shoichi; Yoneyama, Takahiro

PATENT ASSIGNEE(S):

Mitsubishi Petrochemical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE		APPLICATION NO.	DATE	
	<b></b>				
JP 06009505	A2	19940118	JP 1992-161180	19920619	
JP 3128329	B2	20010129			
PRIORITY APPLN. INFO.:			JP 1992-161180	19920619	

OTHER SOURCE(S): CASREACT 120:191360 Aromatic carbonic acid esters are prepared by reaction of aromatic hydroxy compds., CO, and O in the presence of catalysts (A) ≥1 Pd and Pd compds., (B)  $\geq 1$  Ce(III) and Ce(IV) compds., (C)  $\geq 1$ quaternary ammonium and phosphonium salts, and (D) ≥1 quinone and its reduced products, aromatic diols. This process suppresses the formation of oxidative dimerization and trimerization byproducts such as p-phenoxyphenol which has a b.p. close to that of (PhO)2CO and is difficult to sep., and gives the desired products in high yields. 7.8 g phenol, Pd(OAc)2 2.4, Ce(OAc)3.H2O 3.5, Bu4NBr 202, and hydroquinone 34 mg were charged in a Hastelloy autoclave; after flushing the system with CO, 60 atom CO and 30 atom dry air were introduced; and the mixture was allowed to react at 120° for 1 h to give (PhO)2CO 3.7, Ph salicylate 0.12, and p-phenoxyphenol 0.039% (1.0% selectivity). Diaryl carbonates, particularly (PhO)2CO, are useful as intermediates for polycarbonates.

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 93.38 93.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

ENTRY SESSION

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